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PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Gp/1631 \$

| | | |
|--|------------------------|------------------|
| TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i> | Application Number | 09/766,450 |
| | Filing Date | January 19, 2001 |
| | First Named Inventor | Collins, Colin |
| | Group Art Unit | 1631 |
| | Examiner Name | Lori A. Clow |
| Total Number of Pages in This Submission | Attorney Docket Number | 023071-111800US |

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| ENCLOSURES (check all that apply) | | |
|---|---|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input checked="" type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) | <input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Postcard |
| Remarks | | The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430. |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | |
|--|--|
| Firm and Individual name | Townsend and Townsend and Crew LLP Matthew E. Hinsch Reg. No. 47,651 |
| Signature | |
| Date | November 25, 2002 |

| CERTIFICATE OF MAILING | |
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| Typed or printed name | Joy M. Marshall |
| Signature | |
| Date | November 25, 2002 |

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FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 218

Complete if Known

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Application Number 09/766,450
Filing Date January 19, 2001
First Named Inventor Collins, Colin
Examiner Name Lori A. Clow
Group Art Unit 1631
Attorney Docket No. 023071-111800US

DEC 05 2002

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METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ MoneyOrder ☐ Other ☐ None

☒ Deposit Account:

Deposit
Account
Number

20-1430

Deposit
Account
Name

Townsend and Townsend and Crew LLP

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge any additional fee(s) during the pendency of this application

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FEE CALCULATION

1. BASIC FILING FEE

Large Entity Small Entity

| Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description |
|----------|----------|----------|----------|------------------------|
| 1001 | 740 | 2001 | 370 | Utility filing fee |
| 1002 | 330 | 2002 | 165 | Design filing fee |
| 1003 | 510 | 2003 | 255 | Plant filing fee |
| 1004 | 740 | 2004 | 370 | Reissue filing fee |
| 1005 | 160 | 2005 | 80 | Provisional filing fee |

Fee Paid

SUBTOTAL (1)

(\$)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Total Claims | Extra Claims | Fees from below | Fee Paid | |
|--------------------|--------------|-----------------|----------|-----|
| 41 | -39** = 2 | X\$9 | \$18 | |
| Independent Claims | 4 | -4** = 0 | X\$42 | \$0 |
| Multiple Dependent | | X | | |

Large Entity Small Entity

| Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description |
|----------|----------|----------|----------|--|
| 1202 | 18 | 2202 | 9 | Claims in excess of 20 |
| 1201 | 84 | 2201 | 42 | Independent claims in excess of 3 |
| 1203 | 280 | 2203 | 140 | Multiple dependent claim, if not paid |
| 1204 | 84 | 2204 | 42 | ** Reissue independent claims over original patent |
| 1205 | 18 | 2205 | 9 | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2)

(\$)18

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description | Fee Paid |
|----------------|-----------------|----------------|-----------------|--|----------|
| 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath | |
| 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet. | |
| 1053 | 130 | 1053 | 130 | Non-English specification | |
| 1812 | 2,520 | 1812 | 2,520 | For filing a request for reexamination | |
| 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | |
| 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 | 110 | 2251 | 55 | Extension for reply within first month | |
| 1252 | 400 | 2252 | 200 | Extension for reply within second month | 200 |
| 1253 | 920 | 2253 | 460 | Extension for reply within third month | |
| 1254 | 1,440 | 2254 | 720 | Extension for reply within fourth month | |
| 1255 | 1,960 | 2255 | 980 | Extension for reply within fifth month | |
| 1401 | 320 | 2401 | 160 | Notice of Appeal | |
| 1402 | 320 | 2402 | 160 | Filing a brief in support of an appeal | |
| 1403 | 280 | 2403 | 140 | Request for oral hearing | |
| 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding | |
| 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable | |
| 1453 | 1,280 | 2453 | 640 | Petition to revive - unintentional | |
| 1501 | 1,280 | 2501 | 640 | Utility issue fee (or reissue) | |
| 1502 | 460 | 2502 | 230 | Design issue fee | |
| 1503 | 620 | 2503 | 310 | Plant issue fee | |
| 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | |
| 1807 | 50 | 1807 | 50 | Petitions related to provisional applications | |
| 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt | |
| 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | |
| 1809 | 740 | 2809 | 370 | Filing a submission after final rejection (37 CFR § 1.129(a)) | |
| 1810 | 740 | 2810 | 370 | For each additional invention to be examined (37 CFR § 1.129(b)) | |
| 1801 | 740 | 2801 | 370 | Request for Continued Examination (RCE) | |
| 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application | |

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid SUBTOTAL (3)

(\$)200

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)

Matthew E. Hinsch

Registration No. (Attorney/Agent)

47,651

Telephone

415-576-0200

Signature



Date

November 25, 2002

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PATENT
Attorney Docket No.: 023071-111800US
Client Ref. No.: 2000-391-1

Assistant Commissioner for Patents
Washington, D.C. 20231

On November 25, 2002

TOWNSEND and TOWNSEND and CREW LLP

By: Joy M. Marshall

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

COLLINS et al.

Application No.: 09/766,450

Filed: January 19, 2001

For: REPEAT-FREE PROBES FOR
MOLECULAR CYTOGENETICS

Examiner: Lori A. Clow

Art Unit: 1631

AMENDMENT

#11/B
Plunkett
12/10/02

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the Office Action mailed July 2, 2002, please amend the above-identified application as follows. A petition for extension of time to respond for two months from October 2, 2002, to December 2, 2002, accompanies this Amendment.

IN THE SPECIFICATION:

Please amend the last full paragraph on page 7 of the application as follows:

B1
In a preferred embodiment, as depicted in Fig. 2, the process is carried out using any version of the RepeatMasker program (Arian Smit, University of Washington, Seattle, WA), such as RepeatMasker2. This program screens sequences for interspersed repeats that are known to exist in mammalian genomes, as well as for low complexity DNA sequences. The output of the program includes a detailed annotation of the repeats